AMENDMENTS TO THE CLAIMS:

This listing of claims will replace prior versions and listings of claims in the application:

- Claims 1, 7, 17 and 23 have been amended as follows: Underlines indicate insertions and strikethrough indicate deletions.
 - 1. (currently amended) A magnesium-based, semi-solid casting alloy having improved elevated temperature performance when cast from a semi-solid alloy slurry, the alloy emprising consisting essentially of, in weight percent, from about 3 to 7% aluminum, from about 0.5 to 3% strontium, with the balance being magnesium, except for impurities commonly found in magnesium alloys, wherein, the semi-solid alloy slurry includes up to about 20% of a solid fraction by weight.
 - 2. (original) The magnesium-based, semi-solid casting alloy of claim 1, wherein the alloy comprises 4.5 to 5.5% aluminum.
 - 3. (original) The magnesium-based, semi-solid casting alloy of claim 1, wherein the alloy comprises from 1.2 to 2.2% strontium.
 - 4. (original) The magnesium-based, semi-solid casting alloy of claim 2, wherein the alloy comprises from 1.2 to 2.2% strontium.
 - 5. (original) The magnesium-based, semi-solid casting alloy of claim 1, wherein when cast, the casting has an average % creep deformation at 150°C of less than or equal to about 0.04%, an average ultimate tensile strength at 150°C of at least about 174 MPa, an average tensile yield strength at 150°C of at least about 112 MPa, and an average % elongation at 150°C of less than or equal to about 20%.
 - 6. (original) The magnesium-based, semi-solid casting alloy of claim 5, wherein when cast, the casting has an average % creep deformation at 150°C of about 0.04%, an average ultimate tensile strength at 150°C of about 174 MPa, an average tensile yield strength at 150°C of about 112 MPa, and an average % elongation at 150°C of about 20%.
 - 7. (currently amended) A magnesium-based, semi-solid casting alloy having improved elevated temperature performance when cast from a semi-solid alloy slurry, the alloy

comprising consisting essentially of, in weight percent, from about 3 to 7% aluminum, from about 0.5 to 3% strontium, with the balance being magnesium, except for impurities commonly found in magnesium alloys, wherein, the semi-solid alloy slurry includes up to about 5% of a solid fraction by weight.

- 8. (original) The magnesium-based, semi-solid casting alloy of claim 7, wherein the alloy comprises from 4.5 to 5.5% aluminum.
- 9. (original) The magnesium-based, semi-solid casting alloy of claim 7, wherein the alloy comprises from 1.2 to 2.2% strontium.
- 10. (original) The magnesium-based, semi-solid casting alloy of claim 8, wherein the alloy comprises from 1.2 to 2.2% strontium.
- 11. (original) The magnesium-based, semi-solid casting alloy of claim 7, wherein when cast, the casting has an average % creep deformation at 150°C of less than or equal to about 0.04%, an average ultimate tensile strength at 150°C of at least about 183 MPa, an average tensile yield strength at 150°C of at least about 116 MPa, and an average % elongation at 150°C of less than or equal to at least about 17%.
- 12. (original) The magnesium-based, semi-solid casting alloy of claim 11, wherein when cast, the casting has an average % creep deformation at 150°C of about 0.04%, an average ultimate tensile strength at 150°C of about 183 MPa, an average tensile yield strength at 150°C of about 116 MPa, and an average % elongation at 150°C of about 17%.
- 13. (original) The magnesium-based, semi-solid casting alloy of claim 1, wherein the casting is cast using a thixotropic casting process.
- 14. (original) The magnesium-based, semi-solid casting alloy of claim 7, wherein the casting is cast using a thixotropic casting process.
- 15. (original) The magnesium-based, semi-solid casting alloy of claim 1, wherein the alloy has a structure including primary magnesium particles having a mean size of from about 20 to about 150 μ m in a matrix of grains of magnesium having a mean size of from about 5 μ m to about 20 μ m reinforced with Al₄Sr intermetallic homogeneously dispersed particles having a mean size of from about 1 μ m to about 10 μ m.

- 16. (original) The magnesium-based, semi-solid casting alloy of claim 7, wherein the alloy has a structure including primary magnesium particles having a mean size of from about 20 to about 150 μ m in a matrix of grains of magnesium having a mean size of from about 5 μ m to about 20 μ m reinforced with Al₄Sr intermetallic homogeneously dispersed particles having a mean size of from about 1 μ m to about 10 μ m.
- 17. (currently amended) A magnesium-based casting having improved elevated temperature performance when cast from a semi-solid alloy slurry, the slurry comprising consisting essentially of, in weight percent, from about 3 to 7% aluminum, from about 0.5 to 3% strontium, with the balance being magnesium, except for impurities commonly found in magnesium alloys, wherein, the semi-solid alloy slurry includes up to about 20% of a solid fraction by weight.
- 18. (original) The magnesium-based casting of claim 17, wherein the casting comprises from 4.5 to 5.5% aluminum.
- 19. (original) The magnesium-based casting of claim 17, wherein the alloy comprises from 1.2 to 2.2% strontium.
- 20. (original) The magnesium-based casting of claim 18, wherein the alloy comprises from 1.2 to 2.2% strontium.
- 21. (original) The magnesium-based casting of claim 17, wherein the casting has an average % creep deformation at 150°C of less than or equal to about 0.04%, an average ultimate tensile strength at 150°C of at least about 174 MPa, an average tensile yield strength at 150°C of at least about 112 MPa, and an average % elongation at 150°C of less than or equal to about 20%.
- 22. (original) The magnesium-based casting of claim 21, wherein the casting has an average % creep deformation at 150°C of about 0.04%, an average ultimate tensile strength at 150°C of about 174 MPa, an average tensile yield strength at 150°C of about 112 MPa, and an average % elongation at 150°C of about 20%.
- 23. (currently amended) A magnesium-based casting having improved elevated temperature performance when cast from a semi-solid alloy slurry, the slurry comprising

consisting essentially of, in weight percent, from about 3 to 7% aluminum, from about 0.5 to 3% strontium, with the balance being magnesium, except for impurities commonly found in magnesium alloys, wherein, the semi-solid alloy slurry includes up to about 5% of a solid fraction by weight.

- 24. (original) The magnesium-based casting of claim 23, wherein the casting comprises from 4.5 to 5.5% aluminum.
- 25. (original) The magnesium-based casting of claim 23, wherein the casting comprises from 1.2 to 2.2% strontium.
- 26. (original) The magnesium-based casting of claim 24, wherein the casting comprises from 1.2 to 2.2% strontium.
- 27. (original) The magnesium-based casting of claim 23, wherein when cast, the casting has an average % creep deformation at 150°C of less than or equal to about 0.04%, an average ultimate tensile strength at 150°C of at least about 183 MPa, an average tensile yield strength at 150°C of at least about 116 MPa, and an average % elongation at 150°C of less than or equal to about 17%.
- 28. (original) The magnesium-based casting of claim 27, wherein when cast, the casting has an average % creep deformation at 150°C of about 0.04%, an average ultimate tensile strength at 150°C of about 183 MPa, an average tensile yield strength at 150°C of about 116 MPa, and an average % elongation at 150°C of about 17%.
- 29. (original) The magnesium-based casting of claim 17, wherein the casting is cast using a thixotropic casting process.
- 30. (original) The magnesium-based casting of claim 23, wherein the casting is cast using a thixotropic casting process.
- 31. (original) The magnesium-based semi-solid casting of claim 17, wherein said alloy has a structure including primary magnesium particles having a mean size of from about 20 to about 150 μ m in a matrix of grains of magnesium having a mean size of from about 5 μ m to about 20 μ m reinforced with Al₄Sr intermetallic homogeneously dispersed particles having a mean size of from about 1 μ m to about 10 μ m.

- 32. (original) The magnesium-based semi-solid casting of claim 23, wherein said alloy has a structure including primary magnesium particles having a mean size of from about 20 to about 150 μ m in a matrix of grains of magnesium having a mean size of from about 5 μ m to about 20 μ m reinforced with Al₄Sr intermetallic homogeneously dispersed particles having a mean size of from about 1 μ m to about 10 μ m.
- 33. (previously presented) The magnesium-based semi-solid casting alloy of claim 1, wherein the alloy includes Al_4Sr intermetallic.